





# Drought solutions cited in conference

By NICK GOODMAN  
University Staff Writer

Major solutions to the western water shortage were given by three water experts at the annual meeting of the Western Section, American Society of Animal Science, held at BYU.

While dozens of scientific research papers were read and discussed at the meeting of representatives from 12 western states, much of the attention was given to water problems.

Kenneth O. Kauffman, assistant chief of the Division of Planning Coordination with the Bureau of Reclamation's Engineering and Research Center in Denver, observed that major changes likely will develop in the future of water in the West.

He predicted a slowdown of federal water development compared with what has been in the past. Developments will also change in areas of quality, protection and management.

"Water projects are going to be much harder to justify," Kauffman said. "They will be required to meet economic specifications, safety standards and assurance of no major environmental damage."

He predicted also an extreme amount of pressure throughout all government organizations for greater water conservation.

"This does not mean that we stop all development, but as we develop projects, we must keep the environment in mind," he said. "And the cost of water used in our every-day lives is going to continue to increase, including the cost of food products."

Jay R. Bingham, a professional engineer and former director of the Utah Water and Power Board and field engineer for the Provo River Project, told the animal scientists that the 1977-type of drought would undoubtedly come again because nature has never revealed her secrets in her cycles.

"However, in Utah, we have 14 times the amount of water storage capacity this year than in 1934," Bingham reported. "And in terms of ground water — our most efficient storage method — we have increased our use by approximately 50 per cent." Bingham said, "We don't need to panic. We need a change in national policy. We need a consistent program of water development: providing surface storage for waters that now escape us; more ef-

fective use of underground supplies; conservation of water that is lost in conveyance through canals and ditches; becoming more conscious of the value of water; and supporting a uniform development program."

Edward W. Clyde, a lawyer who has specialized in the field of natural resources law, told the animal scientists that water statutes have lagged behind the development of water.

"When we have a limited resource and it can be used for a multitude of purposes but is allocated on who got to the state engineer's office first, that's a totally inadequate system," he observed.

"I believe that within the next three or four years, we will see a great deal of attention to aid the allocation process," he said.

Clyde said, "There are two places to which the waters are allocated: (1) the permit system in which the state engineer allocates the unappropriated water; (2) the system in which the water has already been appropriated and the projects have already been built."

## THE WEEK

Tuesday

Varsity Theater: "World's Greatest Athlete," 7 and 8:50 p.m.

Wednesday

Varsity Theater: "World's Greatest Athlete," 7 and 8:50 p.m.

Play: "Reynard the Fox," 7 p.m., Nelke Experimental Theater, HFAC.

Thursday

Varsity Theater: "World's Greatest Athlete," 7 and 8:50 p.m.

Play: "Cinderella," 7 p.m., Nelke Experimental Theater, HFAC.

Play: "Free To Be You And Me," Margrets Theater, 9 p.m.

Friday

Varsity Theater: "World's Greatest Athlete," 7 and 8:50 p.m.

Play: "Reynard the Fox," 7 p.m.,

Nelke Experimental Theater.

Play: "Free To Be You And Me," Margrets Theater, 8 p.m.

KBYU-TV: "Movie Milestones: Laurel and Hardy," 7 p.m.; "Brigham Young, The Westward Prophet," 8 p.m.

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Play: "Cinderella," 10 a.m., Nelke Experimental Theater; "Reynard the Fox," 7 p.m., Nelke Experimental Theater.

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Sunday

KBYU FM: 88.9; "BYU Devotional," 9 p.m.

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## Magazine editor will speak at Y

The editor of The Ensign and all LDS Church magazines will be the featured speaker Wednesday for the Joseph Smith Lecture Series at 4 p.m. in the east ballroom, ELWC.

Elder Dean L. Larsen will be speaking, Tom Dickson, ASBYU Academy's vice president, said. The Joseph Smith Lecture Series is a religiously oriented lecture series, and is held every four or five weeks.

Elder Larsen, of the First Quorum of Seventy, has titled his talk, "A Time of Cleansing."

Elder Larsen was called to be a General Authority while editor of church magazines in Oc-



Elder Dean Larsen  
...Ensign editor

tober 1976. In addition to his duties as editor of church magazines, he is serving as area supervisor for the southwest area states.

After graduation from Utah State University, Elder Larsen became a high school teacher and basketball coach in Wyoming. He later became a teacher in the church's seminary system. Elder Larsen has also served as a bishop, a Regional Representative, and a mission president in southern Texas.

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## Workers fight fire in Alpine

Flaming destruction spread across 1,500 acres of land when fire broke out in northwest Alpine at 2 p.m. Saturday.

A firetruck from Alpine, which arrived shortly after the blaze started, was unable to contain it as shifting winds blew the fire down Hog Hollow toward Fort Canyon road, endangering several area homes.

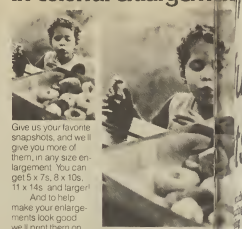
Hilly terrain posed some difficulty to bulldozers and front end loaders as men attempted to clear a strip of land for a firebreak.

Volunteers who fought the fire with shovels and portable extinguishers estimated the flames to average four feet in height.

A firetruck from Pleasant Grove caught on fire but was extinguished by another truck in the area before it exploded.

Alpine Police Chief Ken Mayne, said the possibility of arson is now under investigation.

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## •Y has no specific plans to combat grade inflation

(cont. from page 1)

These professors are trusted to establish criteria for learning and then grade appropriately.

Dr. Bruce Clark, dean of the College of Humanities, noted that part of the problem of grading in general is some teachers grade too low and others grade too high.

"We're dealing with the problem," he continued, "by trying to persuade teachers to grade accurately and to be firmer in their academic standards."

Dr. Clark commented that the University of Utah's system of reporting grades is one way of handling the situation but added, "We're approaching it by working with the teachers to correct

the problem rather than just expose it."

Dr. M. Dallas Burnett, chairman of the communications department, said grade inflation was a "monster of a problem" because if there is no consistency in the university or the country, someone will get hurt. It is important not to grade lower than others, he said, and yet at the same time the grades need to be accurate.

This is a sensitive issue, he noted, because if a university is known for inflated grades, it hurts a student's chances for graduate school. Also there is the chance for an over-reaction to the problem which could result in a system that is not consistent or fair in grading.

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### The Universe

The Daily Universe is an official publication of Brigham Young University and is published as a cooperative enterprise of students and faculty. It is produced as a laboratory newspaper in the Department of Communications under the governance of a Management Team with the council of a University-wide Daily Universe Advisory Committee.  
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# Flight test aims to furnish pilots facts on turns

graduate student in computer-  
manufacturing at BYU is in the  
of running tests designed to  
plane pilots become aware of  
in downwind turns.

Twelves of Springville, a former  
missile launch officer who  
from BYU in 1974 with a  
in manufacturing technology, is  
to resolve one of the major  
among pilots: Does an aircraft  
slide in a downwind turn?

They have debated for years about  
downwind turn. Some say the air-  
craft is a risk, while others argue  
there is no risk involved. "There  
is no scientific proof to  
the argument."

The graduate student is making the  
present study with his own  
as a part of his graduate  
program. Dr. Dell K. Allen,  
professor of technology, is  
for the research.

Although not a pilot himself,  
Twelves has done considerable flying  
as a pilot, a former Navy pilot.

and spent three years in aeronautical  
emphasis at BYU in the mechanical  
engineering program.

For the research, he project designed  
and built a special model aircraft with  
about a five-foot wingspan. Then he  
built a special radio control system in-  
corporating pre-programmed circuitry  
to control the experiment.

At one of the dry lake beds in Utah  
used for tests, he establishes two sta-  
tions from which to mathematically  
determine the altitude of the radio-  
controlled aircraft.

A technician at each station  
photographs the aircraft with special  
instruments that are designed to deter-  
mine the altitude of the craft during  
the turn.

"Pilots of small aircraft, especially  
crop dusters, are convinced that when  
a plane makes a downwind turn, it  
loses altitude," he said.

Twelves said that in a critical situa-  
tion for spraying or making a short  
landing field approach, downwind  
could pose great danger to the craft



Van Twelves explains control device for model aircraft used in downwind turn tests.

and pilot.

"Experienced small craft pilots add  
power when they make their downwind  
turns," he said. "But no one has ever  
measured just how much altitude is  
lost in the turn."

He emphasized that about 70 per-  
cent of small aircraft accidents are of  
the stall-spin variety. The downwind  
turn phenomenon, in many cases, may  
contribute to these accidents.

"Pilots of large jetliners claim there

is little loss in their downwind turns,"  
Twelves said. "They claim that it is a  
perceptual error on the part of pilots  
who claim there is a loss of altitude in  
the turn."

Twelves will continue the experi-  
ments and data acquisition through  
August. Then he will compile the  
results.

"No matter what the data reveals, I  
will have half of the pilots mad at me  
because of the test results," Twelves  
said.

# Church educators tour European centers

By SORESENSEN  
Staff Writer

prominent LDS  
educators have  
from a tour of  
U.S. Semester  
centers with ap-  
provements and  
the program.

member of the  
Academic Vice  
President, K.  
said purposes  
trip included  
the London cen-  
site and con-  
the relocation of  
ing center. The  
also wanted to  
the remodeling  
been done on  
and center in  
program in  
and.

Thomas visited  
s along with  
Education Com-  
Jeffrey  
and Dean of  
ing Education  
Peterson. They  
with three weeks  
end of spring  
and returned the  
end of June.

new site in Lon-  
former embassy  
tensioning. Dr.  
said the site is  
and in a con-  
location.

LDS couple has  
and to manage  
center. "We  
this a great  
Dr. Thomas

team  
girls

positions for 16  
Band are be-  
through  
from 1 to 3  
-481, HFAC.  
unable to apply  
should con-  
Dan Bachelder  
375 or 3284 im-

line will form  
the band by  
menting its  
and visual

Brague will  
and coordinate  
team's routines.

BYU is presently leasing  
in Saltburg and would  
like to purchase a per-  
manent center, Dr.  
Thomas said.

He said Dr. Holland  
was pleased with the  
remodeling in Madrid.  
The Jerusalem center  
also seemed to be  
moving along well, according  
to the academic vice  
president.

Dr. Thomas said the  
Semester Abroad stu-  
dents were asked to give  
feedback on ways to im-  
prove the program. Most  
of their responses in-  
dicated that they wished  
they had been better  
prepared to go.

He said attempts will  
be made to better  
prepare the students by  
giving them a more ex-  
tensive orientation. It is  
hard for students to get  
used to living in a dif-  
ferent culture, but, he  
said, "Our students do  
an extraordinary job.  
Most of them adapt  
beautifully."

Another area of con-  
cern is financial aid to  
students in the program.  
The university already  
subsidizes the program,

but the trip is still ex-  
pensive for the students.  
Dr. Thomas said it is  
hoped that more  
scholarship money will  
be made available to  
help those who are well  
prepared but would  
otherwise be unable to  
go, and particularly to  
help more male students  
who have already  
shouldered the expense  
of the academic vice  
president.

Other problems the  
program faces concern  
the rotation whereby the  
separate groups from  
each center visit the  
other centers. The  
transportation and hous-  
ing is often very dis-  
organized. "This is an  
incredible problem,"  
said Dr. Thomas, "but I  
know of no way to beat it  
except to change the  
very nature of the Euro-  
pean people them-  
selves."

Firesides were held in  
each of the centers while  
the visitors were there  
and the students were  
given the opportunity to  
express their feelings.

# Noted doctor to discuss childhood stress, traumas

The topic "Changing  
Children's Behavior"  
will be discussed by a  
noted child development  
specialist tonight as the  
BYU Alumni College  
lecture at Aspen Grove  
Family Camp.

In his 8 p.m. lecture,  
Dr. Elliot Landau will  
look at the severe  
stresses and traumas  
that today's children  
suffer from and tell how  
the concerned parent

should deal with them.  
He will also suggest  
rational approaches in  
helping the problem  
child.

Dr. Landau, a popular  
lecturer and a University  
of Utah faculty member,  
is the author of several  
books on child develop-  
ment, including "You  
and Your Child's World"

and "Raising Fine  
Families." He has also  
written two professional  
textbooks and is a  
regular contributor to  
LDS Church magazines.

His daily radio  
program is broadcast in  
cities throughout the  
United States. He is also  
seen regularly on KSL-  
TV's noon news.

# Tournament scheduled

The Table Tennis  
Club is planning an  
Open Invitational Table  
Tennis Tournament  
Saturday at 10 a.m. in  
the ELWC Games Cen-  
ter.

According to Dan  
Wells, president of the  
Table Tennis Club, en-  
trants do not have to be  
BYU students to enter  
the tournament. There  
will be no pre-  
registration.

Wells said the tourna-  
ment will be a singles  
double elimination re-  
quiring a \$1 entry fee.  
The fee will help absorb  
the cost of tournament  
trophies. Further infor-  
mation can be obtained  
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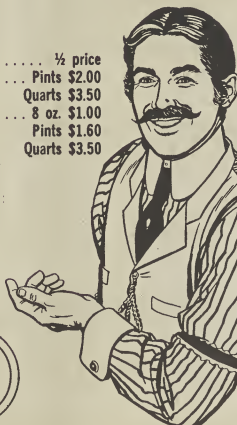
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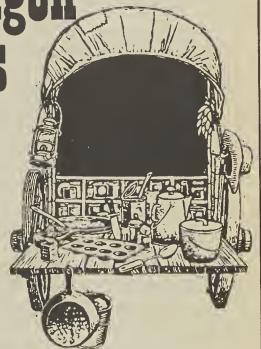
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# Promised lands for LDS, Jews appear similar

By PAT KLEIN  
Universe Staff Writer

Unusual historical and geographical similarities exist between the promised land of the Jews and the promised land of the Latter-day Saints.

The Utah Salt Lake Valley makes up the promised land of the Saints, whereas the Jordan River Valley in Israel is the promised land of the Jews.

LaMar C. Berrett, professor of Church History and Doctrine, said the early Saints were led by a prophet to this valley just as the 12 tribes of Israel had been led by Moses through the wilderness to Canaan.

"These are the only two places in the world where a salt sea collects water from a fresh water lake and is connected by a Jordan River," Dr. Victor L. Ludlow, professor of Ancient Scriptures, said.

Some geographical similarities Berrett noted between the Sea of Galilee and Utah Lake are "both are surrounded by low mountain-type structures" and both have fish.

"Both are fished commercially now as well as in ancient times," he said. Some types of fish found in both lakes are carp, suckers and catfish.

He also said Utah Lake and the Sea of Galilee are similar in shape. "They both have a big end and a little end — shaped like a harp."

A Jordan River connects each of the fresh water lakes to their salty counterparts. Both rivers are very muddy especially at the point where they flow into the salt water bodies, Dr. Berrett added.

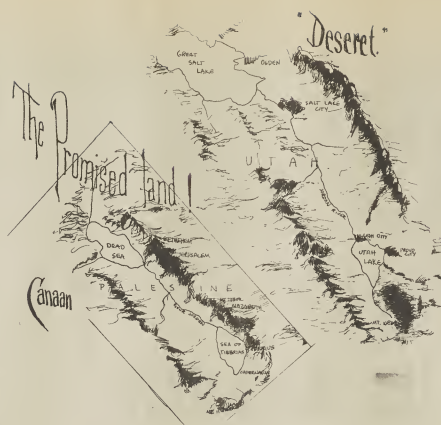
The early settlers noticed the similarities between the two rivers, he said. "That is why they originally called the river in Utah the West Jordan."

The Great Salt Lake and the Dead Sea are two inland salt water lakes with no outlet to any ocean. Both have about the same percentage of salt content in the water.

The Great Salt Lake contains 20 to 27 per cent salt while the Dead Sea has a 25 per cent salinity according to The Columbia Lippincott Gazetteer of the World.

The dictionary said both bodies of water were several times more saline than ocean water. More than six billion tons of salt have been extracted from the Great Salt Lake for commercial use.

In his book, "Mormon Doctrine," Elder Bruce R. McConkie said, "Among the ancient Hebrews salt was an indispensable element having both temporal and spiritual uses. It was used as a preservative, in seasoning food and in all animal sacrifices. So essential was it to the sacrificial or-



Land of Canaan, left, and the land of Deseret exhibit geographic and historic similarities.

distance that it was the symbol of the covenant made between God and his people in connection with that sacred performance."

There are several differences between the two areas, Berrett said. Both of the lakes in Utah are much larger than the ones in Israel and are located at a much higher elevation, whereas the Israeli lakes are both below sea level.

Another difference is that Utah Lake is very muddy but the Sea of Galilee is

Universe art by Kendy Bragdo

"crystal clear, cold and beautiful," he added.

Also, the two rivers flow in different directions. The Jordan River in Utah flows north into the Great Salt Lake while the Jordan River in Israel flows south into the Dead Sea.

"The two salt water bodies are there for different reasons," Dr. Berrett said. The Dead Sea is a depression along a fault line and the Great Salt Lake is the remnant of an enormous, prehistoric inland lake known as Lake Bonneville.

## Ricks president gets new ca

The president of Ricks College, Dr. Henry B. Eyring has accepted a new job with the church educational system as a deputy church education commissioner.

Academic Dean Dr. Harry J. Maxwell will become acting president until a new president is chosen.

A church spokesman said Eyring will assist Dr. Jeffrey Holland, church

education commissioner, in the administration of church education programs in the United States and other countries.

A church spokesman said Eyring has been president of the church since July 1, 1971. During that time, several new academic buildings and programs in the United States and other countries were added.

## New counsel named for Y

An attorney from Oakland, Calif. has been appointed associate general counsel for BYU.

Eugene H. Bramhall will work with H. Hal Visick, BYU general counsel, in conducting the legal affairs of the university.

Visick said BYU is adding Bramhall because they want to have a broader coverage of the university.

Bramhall, a native of Salt Lake City, received a B.S. in business administration in 1964 and his law degree in 1960 from the University of California at Berkeley.

Since 1960 he has practiced with two law firms with an emphasis on business, banking and litigation.

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## Seminar to center on physical fitness

A seminar on physical fitness will be held Saturday at the University of Utah.

Elder Marion D. Hanks, a member of the First Quorum of Seventy and a consulting member of the President's Council on Physical Fitness, will make the introductory remarks.

Seminar Coordinator, Kreg Calder, has arranged for a panel of four speakers who will focus the workshop on the role of aerobic exercise in preventing and/or reducing illness and fatigue.

Dr. George Sheehan, Dr. Tom Bassler, and Dr. and Mrs. Jack Scaff will be seminar speakers, Calder said.

Dr. Sheehan, a world-renowned journalist, lecturer and author will fly in from South Africa for the one-day session.

Dr. Bassler is a 44-year-old marathoner and pathologist from Inglewood, Calif.

Dr. Scaff, director of the Honolulu Cardiac Rehabilitation Clinic, and his wife will be on leave.

The public is invited to attend the day-long seminar at Orson Spencer Hall. Registration is scheduled from 8 a.m. to 8:15 a.m.

### Business seeks

#### BYU graduates

A leading manufacturer of business forms will be on campus Tuesday interviewing students for a sales position in Salt Lake City.

According to Wayne Hanson, director of placement services, a representative from Urco will be meeting with August graduates in business management, accounting and liberal arts at the Placement Center, D-240 ASB, from 8:45 a.m. to noon.

### McKay building to be renovated

Work is planned to start late this fall to renovate the David O. McKay Building, according to Edwin Cozzens, BYU Planning Division Supervisor.

Cozzens said most of the work is essential upkeep of the existing structure, but the remodeling plans also call for a small addition to be made on the north end of the building.

**Club Notes**

#### CHESS CLUB

Double drop-in tournament this Wednesday at 7 p.m. in 370 ELWC. Boards, sets and some clocks will be provided. Come learn this interesting variation of chess, played with teams.

#### PHI ALPHA THETA

Thursday in 321 ELWC from 4 to 5 p.m. John Bluth will present "Oral History: An Approach to the Past." Come and find out how to record our fast moving life. Invite your friends. The public is welcome.

#### SIGMA DELTA OMICRON

There will be no meetings held during the summer term. Regular meetings will resume again in the fall.

## Y students injured by leaking chemicals

Leaking chemicals in a storage room of the Harris Fine Arts Center sent one student to Utah Valley Hospital for treatment of burned lungs, with four other people admitted for observation.

Richard Foote, a junior in drama, was working in the lighting and equipment room Friday evening when he noticed smoke coming from a nearby closet.

According to Police Chief Robert W. Kelshaw, Foote saw the smoke and carried the chemicals to a trash container outside of the building, then summoned help.

BYU Security Police along with the Provo City Fire Department disposed of the chemical known as Titanium Tetrachloride and transported Foote to Utah Valley Hospital.

As to Foote's condition, Kelshaw stated, "His lungs were burned and he was doing a lot of coughing." Foote was released Saturday.

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# Entertainment



The Universe

## New movie 'Indian' shows modern plight

By BRUCE HERTFORD  
Universe Staff Writer

A press screening of the as-yet-unreleased film, "Indian," was held at the Regency Theatre in Salt Lake on July 9. It was directed by Y grad Keith Merrill and stars Raymond Tracey, an ex-student at BYU who appeared in the title role of "Joe Panther."

Essentially an elongated documentary with superb photography, "Indian" will be edited and released in the coming months and is highly recommended as a visual and aural delight, examining the plight of the American Indian. Merrill collaborated on the script and wisely has chosen theatrical and purely entertaining elements to illustrate his points.

Though the film needs some trimming in various sections, the screening audience seemed particularly moved and affected by the inclusion of several scenes depicting Indian children and the cause they must now shoulder.

Tracey appears throughout as both an example of Indian youth and also serves as an antagonist for the action. Chief Dan George appears as Tracey's grandfather in what has come to be his usual, endearing portrayal.

The film centers somewhat on Tracey's life as an Indian growing up in the United States, reflecting at inter-

vals upon his influences, feelings and the pressures under which he felt he had to endure. It dreams with Tracey as he envisions a lovely Indian maiden and pursues her, later awakening to discover the maiden has become the girl next door.

Tracey visits with Indians who have made a name for themselves in various walks of life, and, in a particularly moving sequence, appears the man responsible for part of the construction of the Mt. Rushmore monument. He is currently laboring on a life-long dream, a depiction of the plight of the Indian carved into the face of a mountain. In a truly rare moment of screen history, the carver becomes choked with emotion describing his quest and the audience virtually tingles with the excitement of the moment caught on celluloid.

Though it is not currently possible to see "Indian" because it is still being edited and revised, watch for it to come in near the future. It is a deeply moving, disturbing examination of the American Indian, often depicted as an unsavory savage who attacks the cowboy in white. You will not leave the theatre unaffected, I guarantee it. Perhaps this little but important film will change the sadly stereotyped image so many still have of this vitally important group of Americans.

## Y student exhibits pottery

A BYU graduate is displaying his pottery in the art exhibit now being shown in the Wilkinson Center Gallery until July 29.

Kent A. Jefferies is presenting his work as a candidate for a master of fine arts degree. The culmination of his master's project will be in an artist's show next summer.

Jefferies' pottery demonstrates his study of ancient Anasazi and present day Pueblo Indian stoneware. He said his objective has been to combine knowledge and modern technology to show what creative possibilities these great past and present potters

might have followed had the opportunities been available.

Beginning with ancient pottery designs and motifs, Jefferies applied such modern devices as the wheel, gas kilns and stoneware glazes to produce this preliminary art exhibit.

Included in his showing are conventional stoneware pottery, some ceramic sculpture, and pottery thrown on a wheel but shaped and decorated similar to ancient Indian designs now covered with various glazes.

During his final summer showing, Jefferies will demonstrate how the indirect graphic

designs influenced the Indian pottery. The artist will also display how he fit his own graphic designs to more conventional shapes.

A further study is being conducted on which glazes can be used most successfully in conjunction with the designs.

Jefferies lives in Arizona and teaches high school art in Kayenta on the northern Navajo reservation.

## Ron Howard directs film

LOS ANGELES (AP) — On March 1 of this year, Ron Howard turned 23. On March 2 he began directing his first feature movie, "Grand Theft Auto."

A \$600,000 movie is a pretty expensive one to entrust to a 23-year-old, even one who has been around the movie business for 19 years. But Ron Howard demonstrated the cool competence he displayed in his acting career, from "The Andy Griffith Show" to "Happy Days," and from "Music Man" to "The Shootist."



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## Y festival will honor famed Greek pianist

The annual international competition in connection with the Summer Piano Festival at BYU will be named in honor of the late Gina Bachauer, a Greek pianist who won acclaim as one of the world's distinguished artists.

The announcement was made earlier this month at the conclusion of the festival in the deJong Concert Hall, HPAC.

A Kawai ebony grand piano was donated to the competition as a memorial to Mrs. Bachauer by representatives of Daynes Music Company of Salt Lake City and American Kawai Piano Company.

Mrs. Bachauer appeared several times in Utah including performances at BYU and with the Utah Symphony Orchestra.

In her youth, the Athens-born virtuoso

studied with Sergei Rachmaninoff, giving concerts throughout Europe. After World War II she resumed her career in London where she performed with conductor Alec Sherman, who later became her husband.



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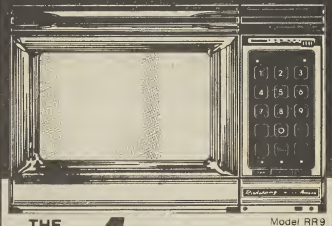
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Theresa Dayley, left, is Reynard the fox and Mark Puiham, right, is Noble the lion in the children's play "Reynard the Fox," which will be presented by the Whittlin' Whistlin' Brigade beginning Wednesday.

## 'Brigade' to perform in 'Reynard the Fox'

The Department of Theater and Cinematic Arts' Whittlin' Whistlin' Brigade will present six performances of the children's play "Reynard the Fox."

The exciting story — filled with colorful animal characters, witty language and dramatic suspense — begins Wednesday and continues on Friday and Sunday. It will also be presented July 28 and 30, the final performance on Aug. 6. All shows start at 7 p.m. in the Nelke Experimental Theater. Tickets are available at the door.

This is one of four children's plays sponsored by the Theater and Cinematic Arts Department and the Provo Community School Program. Dr. Harold Oaks is managing director of the play. "Reynard the Fox" is the story of an adventurous but rascal of a fox named Reynard who matches wits with a cocky crow, a sanctimonious magister, a crafty wolf and a bumbling bear in the

Kingdom of Noble, the lofty lion.

"Respecting the intellect and sensitivity of the child, the play also provides thought-provoking entertainment to the adults," Dr. Oaks said.

"Satirical, its significance is in its comment on the human counterparts of its animal characters." Costumes and makeup for the play are flamboyant, based on designs by Irene Corey, a noted costume designer from New York.

The Whittlin' Whistlin' Brigade repertory troupe consists of college students and is in its third year of successfully entertaining people of all ages. The group takes its name from Mormon history in Nauvoo, Ill., in the 1840's during a time of persecution. When a suspicious stranger entered the town, a group of boys followed him around whistling and whistling all the time to unnerve the stranger and let the towns people know of his whereabouts.

## Soviet analyzes 'Rocky'

MOSCOW (AP) — A Soviet critic told his readers that the film "Rocky" became a box-office hit and won three Academy Awards because it catered to the tastes of U.S. moviegoers for an encouraging story of underdog America.

The arguments that triumphed in giving "Rocky" Oscars were linked ... with the effort to inspire in films of film viewers the impression that all is not lost in life, that everyone has a chance," Yessenyevsky wrote in the weekly Literary Gazette.

"By Hollywood standards this film ideally accords with what the public needs," said Zasursky's review of the four-winning films of 1976.

Behind the story of an unknown young boxer who wins a little-known award with few connections in the Hollywood-based movie industry when he wrote the script and had the film produced on a modest budget.

The Soviet critic added that the film "Network," an indictment of television manipulation of audiences, attained popularity because it exposes "behind-the-scenes games of big corporations." Behind Paddy Chayefsky, who wrote "Network," "I convinced myself on the basis of his own experience of the endless cynicism and prostitution of American television," Zasursky said "Network" would have won the top Oscar for best film of the year, an honor that went to "Rocky." The critic felt the men who control Hollywood could not accept such an honor to a film about television, their competitor.

The male and female leads in "Network" — the late Peter Finch and Faye Dunaway — won Academy Awards for best actor and actress, and the film took four Oscars in all.

Zasursky panned "All the President's Men," which also won four awards. He called it propaganda attempting to inspire confidence in the American

press, generally lacking among readers in the U.S.A."

The critic said the film, about two Washington Post reporters' uncovering of the Watergate scandal, spent too much time on the reporters' work and not enough on the underlying causes of Watergate.

"The film is more an attempt to profiteer from the Watergate affair than to expose the system that led to the numerous evil acts exposed during the investigation," Zasursky wrote.

## Musical review ends summer drama class

BYU's 1977 High School Theater Workshop will culminate its activities with a presentation of the musical review, "Free To Be You and Me," to be performed in the Margeret Arena Theater Thursday, Friday and Saturday at 8 p.m.

Tickets went on sale Thursday at the theater ticket office. Student, faculty and staff admission is \$1 and general admission is \$1.75.

The production is being directed by Dr. Charles W. Whitman, professor of theater in BYU's Department of Theater and Cinematic Arts.

Dr. Whitman has directed other BYU productions, such as "Peter Pan" and "The Cherry Orchard," and is currently directing "The Fantasticks."

The annual High School Theater Workshop is a five week immersion in drama classes and experiences for high school students.

Dr. Whitman notes that "Free To Be You and Me" deals with the differences between men and women.

"Often times," Dr. Whitman said, "what we have strictly considered a male's domain or a female's domain, we have no reason to think as such. Things that make us men and women are deeper than the obvious. We must look deeper."

## PEANUTS®

by Charles M. Schulz





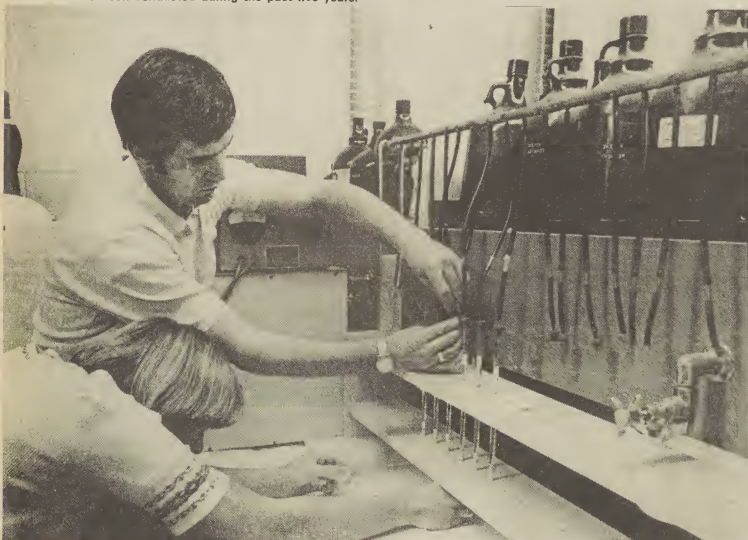


Universe photos by Emily M. Winn

A researcher holds one of the more than 2,000 quail being used in the research on the chemical dimilin. Studies on the environmental effects of dimilin have been conducted during the past five years.



Don Human, a junior in microbiology from Arizona, and Russ Stankiewicz, a junior in microbiology from Norwich, Conn., draw blood for testing from one of the quail.



Rosemary Pendleton, a senior from Provo majoring in botany, and Dr. Gary Booth, associate professor of zoology, work with Celite Column Chromatography, which isolates the bird's hormones.



A student researcher works with an extraction apparatus which extracts a chemical from vegetation samples.



The quail are bled every two weeks so the effects of dimilin in their bloodstream can be checked. One group is sacrificed to study the effect of the quail's heart, liver, breast muscle and skin.

## Y zoologist study alternative to DDT

By BOB HAMM  
Universe Staff Writer

A chemical currently being researched at BYU could be the key to alleviating the worries of many ecologists, and animals, as well as disposing of many unwanted pests for the farmer.

The study is being conducted by Dr. Gary M. Booth, associate professor of zoology and is the only one of its kind in the world using the chemical dimilin. If the research continues to prove favorable, dimilin could replace DDT as the pesticide of the future.

Dr. Booth is presently being assisted by 15 students on the project. Various studies on the environmental effects of dimilin have been conducted during the past five years. Currently in different phases of development are 10 different studies involving dimilin research.

Environmentalists have been concerned about the effects dimilin will have on non-target organisms. At normal use levels, between .1 and 1.0 parts per million, results have been favorable.

One of the tests being conducted on campus by Dr. Booth and his staff assistants involves the use of 2,000 quail. This study is still in its early stages.

There are two general areas of concentration with the quail study. In the Wildlife Building about 750 quail are housed. The quail are fed five different treatments of differing amounts of dimilin in their feed, with two being control groups. There are 37 dif-

ferent replications per treatment of feed and receive a good sample, Dr. Booth said.

The eggs from the quail are collected daily and marked to see if the birds are failing to hatch. Approximately 340 eggs are gathered each day.

"We will be able to tell from the percent hatched whether the effects are negative or not. Weeks after the chicks hatch we check for any malformities have been produced. We will be able to see if it reached the third generation," he said.

"Another phase of the study is the effect dimilin will have on the testosterone and estradiol, the sex hormones of the male and female, respectively."

This phase of research is being done in a warehouse where the remaining 1,250 quail are housed. After receiving the five treatments, the quail are checked to see the effect dimilin has on their internal organs.

These quail are divided into two groups. Each bird in one group, three milliliters of blood is extracted from the wing vein. The blood is checked to see what concentration of dimilin remains in it.

The second group is "sacrificed" today to study the effects of the quail's heart, liver, breast muscle and skin.

"Thus far the results on the quail have been totally negative," Dr. Booth said.